

Date: Fri, 23 Sep 94 12:31:33 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #1054
To: Info-Hams

Info-Hams Digest Fri, 23 Sep 94 Volume 94 : Issue 1054

Today's Topics:

1.2GHz on an HT -- how far? (2 msgs)
 [Q] Installing 2m Amplifier in Car
 A kind of amusing story
 Camry Installation
 FCC Application Delays . . .
 Ham Radio mailing lists?
Restrictive Covenants: I can't have *any* antenna?
 Route for TN6RR
Tucker Electronics (2 msgs)
Youth amateur radio club?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 23 Sep 1994 08:51:57 -0700
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!barrnet.net!nntp.crl.com!crl4.crl.com!
not-for-mail@network.ucsd.edu
Subject: 1.2GHz on an HT -- how far?
To: info-hams@ucsd.edu

Greg Brush (gbrush@indy.net) wrote:
: Hi!

: A few of us with experience only in HF/VHF were discussing operation in the
: 1.2GHz band and specifically just how far (or not) one could transmit with the
: typical HT operating on 1 or 2 watts with a rubber duck style antenna.

Expect performaces simulat to 2m or 440. The differances are more
multipath, and a different group of people.

Ron
N5HYH

Date: 23 Sep 1994 08:56:03 -0700
From: agate!barrnet.net!nntp.crl.com!crl4.crl.com!not-for-mail@ames.arpa
Subject: 1.2GHz on an HT -- how far?
To: info-hams@ucsd.edu

pouelle@uoft02.utoledo.edu wrote:
: The physics involved suggest to me (a poor unfortunate Astrophysics grad
: student) during the warm months on 1.2GHz (with leaves on the trees) you
: might be lucky to get 100 feet with a rubber duck. Microwave ovens
: operate (or operated) near 1.3GHz on the principle that the H2O in the
: item to be heated is a strong absorber of energy at that frequency.
: Personally I'd go with 6m but that's neither here nor there. Anyway,
: 1.2GHz will be line of sight, and strongly influenced by any water containing
: items in the path (might be an interesting experiment to see how much
: the signal strength changes with humidity variations).

Microwave ovens operate on 2470 Mhz.

Water becomes a problem at 10Ghz and up with a peak somewhere around 24
Ghz.

Ron
N5HYH

Date: 23 Sep 1994 10:05:34 -0400
From: psinntp!JH.Org!not-for-mail@uunet.uu.net
Subject: [Q] Installing 2m Amplifier in Car
To: info-hams@ucsd.edu

I have to install a RF Concepts 2m/440 Amp in my Toyota Camry.
I have a bunch of questions:

What guage wire do I use? The brick is rated at 6 amps.

I plan to run cables from the battery to under the driver's
seat. I will fuse the pos and neg leads at the battery. Do
I use 6 amp fast-blo fuses or what?

If you are familiar with '92 Camrys do you have any suggestion for routing these lines through the firewall?

Should I create a chassis ground at the amplifier as well?
Does this ground need to be a braid or is it sufficient to use the same guage wire as the power line?

Thanks for your help.

BTW I'm also going to post about the above installation with the subject "Camry Installation"

--

ss@jh.org Steve Steinberg Amateur Radio Callsign: KB2???

Date: 23 Sep 1994 17:11:15 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!
news.sprintlink.net!everest.pinn.net!usenet@network.ucsd.edu
Subject: A kind of amusing story
To: info-hams@ucsd.edu

>So anyway, it turns out N. doesn't know Steve's last name so J.
>(who works for the local paper and is both close to and good
>at using the library) goes and finds the Callbook and finds
>Steve listed so now she can look up his phone # and return
>his keys. It did take her a while to figure out the ordering
>pattern in the Callbook. She knows nothing about ham radio
>and I neglected to tell her that the calls are listed by the
>number, then alpabetically by the letters AFTER the number.
>But she found it.
>
>She's going to see if Steve can guess how she found out his
>last name. I bet he won't.

Good reason not to get a license if you ask me. Comforting to know anybody can figure out who youe are by your call numbers.

Date: 23 Sep 1994 10:07:01 -0400
From: psinntp!JH.Org!not-for-mail@uunet.uu.net
Subject: Camry Installation
To: info-hams@ucsd.edu

I have to install a RF Concepts 2m/440 Amp in my Toyota Camry. I have a bunch of questions:

What guage wire do I use? The amplifier is rated at 6 amps.

I plan to run cables from the battery to under the drivers seat. I will fuse the pos and neg leads at the battery. Do I use 6 amp fast-blo fuses or what?

If you are familiar with '92 Camrys do you have any suggestion for routing these lines through the firewall?

Should I create a chassis ground at the amplifier as well? Does this ground need to be a braid or is it sufficient to use the same guage wire as the power line?

Thanks for your help.

BTW I'm also going to post about the above installation with the subject "[0] Installing 2m Amplifier in Car"

— —

ss@jh.org Steve Steinberg Amateur Radio Callsign: KB2???

Date: 23 Sep 1994 11:21:53 -0400
From: psinntp!JH.Org!not-for-mail@uunet.uu.net
Subject: FCC Application Delays . . .
To: info-hams@ucsd.edu

Just to let everyone know the status of my ticket:

I passed my General on 7/24. Last week I saw some posts and heard that others were receiving their ticket in 5-7 weeks, so at week 8 (09/18) I decided to call the FCC.

I was told that the license was received on 8/15 but that there was some problem and that it would be returned to the 'Amateur Group.' I called the ARRL VEC dept and a very understanding fellow, Peter Warner, explained that they had rec'd nothing back but it could take 6 weeks! He suggested that I could call back and try to get more info.

The second time I called the FCC I relayed the previous conversations and was then told that the application was sitting in an error folder

incomplete). Like the lists of other Internet resources I maintain (WWW pages, Gopher, FTP sites, callsign servers, etc.) it is available from the Columbia Univ. ARC's World-Wide Web home page:

<http://www.cc.columbia.edu/~fuat/cuarc/>

(Or go directly to <http://www.cc.columbia.edu/~fuat/cuarc/mailling-lists.html>)

If you have any additions or corrections, please email them to me.

[Jeff, if you don't have a WWW browser such as Mosaic or Lynx, let me know and I'll email you the info.]

73,

--Fuat, N2YGN

Columbia University
703 Watson Labs
612 W115th Street
New York, NY 10025

fuat@columbia.edu
212-854-4804
212-662-6442 (Fax)
N2YGN

Date: 22 Sep 94 01:51:44 -0500
From: tulane!wupost!news.miami.edu!usenet.ufl.edu!gnv.ifas.ufl.edu!
climatol@ames.arpa
Subject: Restrictive Covenants: I can't have *any* antenna?
To: info-hams@ucsd.edu

Michael R. Dow (R1156C@WACCVM.CORP.MOT.COM) wrote:

: My wife and I are looking at a new house... Its a nice house... Nice
: neighborhood, nice neighbors... You know, the kind of house that's
: just... well..... Nice. EXCEPT!

: There's this one little clause in the deed restrictions:

: GENERAL RESTRICTIONS:

: Antennae: No exterior radio or television antenna or aerial or satellite
: dish receiver, or other devices designed to receive telecommunication
: signals, [...]

: Pardon me, but I thought this wasn't legal? Can someone post, email or
: point me to relevant legal precedent which makes the clause invalid?

The FCC's PRB-1 only applies to restrictions imposed by government agencies. You are free to voluntarily enter into a private contract that puts restrictions on you, so it is a perfectly legal and enforceable contract, unless you live in Georgia.

The Georgia legislature recently recognized that people often don't have a real choice about accepting deed restrictions, and passed a law which prohibits restrictions against Amateur Radio antennae, even in private covenants. I don't know if the law has taken effect yet, or any other details...

I guess you probably aren't buying a house in Georgia. Oh well.

You might try talking to your prospective neighbors and see how they feel about outdoor antennas. If they don't object you will probably have better luck with the review board. In particular, a not-too-obvious dipole is not very objectionable -- I have one in the yard now, despite a similar prohibition. It is almost invisible (well, it helps that it is in a oak tree big enough to completely contain a full size 20-meter dipole -- and possibly a 40 if I wanted to try!). Good luck!

-- Bob, WB4JCM
afn01750@freenet.ufl.edu

Date: 23 Sep 1994 15:28:19 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!
vixen.cso.uiuc.edu!prairienet.org!k9cw@network.ucsd.edu
Subject: Route for TN6RR
To: info-hams@ucsd.edu

In a previous article, jfj@pacer1.usca.scarolina.edu (John F. Jarvis) says:

>Any suggestions re a QSL route for TN6RR very greatly appreciated.
> 73, John KE2WB
>

Save your money. This station showed shortly before TN0CW came on the air earlier this year. All indications are that it is a pirate.

By the way, my TN0CW card came the other day! Quite good service.

73, Drew

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| Andrew B. White K9CW | internet: k9cw@prairienet.org |
| ABW Associates, Ltd. | phone/fax: 217-643-7327 |

Date: Fri, 23 Sep 1994 12:53:29 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!math.ohio-
state.edu!news.acns.nwu.edu!news.eecs.nwu.edu!tellab5!jwa@network.ucsd.edu
Subject: Tucker Electronics
To: info-hams@ucsd.edu

In article <marcbg-2209941507140001@net42.metronet.com> marcbg@metronet.com (Marc B. Grant) writes:

>Hi Gang
>I'd like to know what kind of experiences you've had with Tucker
>Electronics. I prefer email replies, but you may also follow up to this
>thread.

>

>Thanks in advance!

I purchased a Tektronics 465 oscilloscope from the them about two
years ago for \$900. It had some problems (that I fixed myself) but
I saw the same model at local hamfest for \$400

Jack Albert WA9FVP

Fellow Radio Hacker

Date: 23 Sep 1994 15:54:10 GMT
From: news2.near.net!cat.cis.Brown.EDU!pstc3.pstc.brown.edu!md@yale.arpa
Subject: Tucker Electronics
To: info-hams@ucsd.edu

The one thing I have noticed is that on used equipment their prices seem
very, very high. I routinely get a catalog from them and in it I see
old computer systems with 64K, tape drive, and dinky monitors selling for
\$800.

Even on new equipment their prices are nothing special.

I suppose if they have a piece of equipment that you absolutely,

positively need and cannot get anywhere else, buy from them. I never would, however.

MD

--
--

-- The best way for Bill Clinton to keep his legal
-- fees down is to keep his pants zipped up.

Date: 23 Sep 94 16:56:35 GMT
From: news-mail-gateway@ucsd.edu
Subject: Youth amateur radio club?
To: info-hams@ucsd.edu

>I am a 16 year old ham. I've had my license for 7 years, and have never
>heard of a youth amateur radio club. Does anyone know of any? Any information
>would be appreciated.
>Todd BROWNJEB@Delphi.com

basically the problem is that everyone grows up. and there has been a serious
lack of recruiting for folks under the age of 30 for whatever reason for a
long time.

you could be the first in a new organization. then again, you'll be in QCWA
when you are 34 (in 2012) whereas i'll be 41 (in 1997) when i'm eligible.

is there a school radio club? and if so is there enough interest in the
younger kids to get a legacy going? this usually runs counter to the strong
"classing" of people that goes on in the school...

bill wb9ivr

Date: Thu, 22 Sep 1994 22:11:36 GMT
From: lll-winken.llnl.gov!enews.sgi.com!fido.asd.sgi.com!odin!
jerber.sandiego.sgi.com!jerryb@ames.arpa
To: info-hams@ucsd.edu

References <CwE5Fu.41t@srngenprp.sr.hp.com>, <CwHy4y.BAx@odin.corp.sgi.com>,
<CwInpI.G5L@news.Hawaii.Edu>ryb
Subject : Re: Why is aviation COM VHF *amplitude* modulated?

In article <CwInpI.G5L@news.Hawaii.Edu>, jeffrey@kahuna.tmc.edu (Jeffrey Herman)

writes:

```
|> jerryb@jerber.sandiego.sgi.com (Jerry Bransford) writes:
|>
|> >It's due to a simple fact that AM preceded FM and that AM is what was
available when airplanes began using radios.
|>
|> Then why did the land-mobile services (which started out using AM)
|> switch to FM?
|>
|> I think the best answer so far was that FM's capture effect would
|> be detrimental, if not dangerous, to air-ground comms.
|>
|>
|> Jeff NH6IL
```

It still has little to do with FM capture effect. It's purely economic.

How old is the average airplane? How old is the average car that uses land-mobile radio service? And how much \$\$ does an aircraft radio cost compared to one suitable for a car? And typically it's the government user that uses land-mobile radio services who can decide to spend the \$\$\$ because it's only tax dollars they are spending, not their own personal dollars.

Cars are replaced every few years, and end-users of land-mobile (typically government/taxi/police/fire) buying cars/trucks can make that switch to new radio technologies with little or no economic impact. Not so with airplanes. Airplanes are NOT replaced regularly, and thus there is a huge economic cost for someone to mandate that airplanes **will** switch to the incompatible FM mode.

And it would have had to have been mandated for **everyone** to switch to FM due to the incompatibilities between AM and FM

There are too many AM radios in airplanes, and when there was shortlived talk of FM for airplanes, it was thoroughly trounced by a broad spectrum of airplane drivers/owners/operators for purely economic issues.

--

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~~~~~
Jerry Bransford
Silicon Graphics
(619) 546-0409
PP-ASEL - KC6TAY
~~~~~
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Date: 23 Sep 1994 09:18:45 -0600
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!library.ucla.edu!csulb.edu!nic-
```

nac.CSU.net!charnel.ecst.csuchico.edu!xmission!xmission!not-for-
mail@network.ucsd.edu
To: info-hams@ucsd.edu

References <CwInpI.G5L@news.Hawaii.Edu>, <8g5Dc2j030n@cpzap.xs4all.nl>,
<35uf24\$mhr@cmcl2.nyu.edu>o.
Subject : Re: Why is aviation COM VHF *amplitude* modulated?

zap@cpzap.xs4all.nl (Martin Heffels) writes:
>AM also suffers much from ignition noise, generated by cars, which makes
>mobile comms very difficult.

In article <35uf24\$mhr@cmcl2.nyu.edu>,
Roy Smith <roy@mchip00.med.nyu.edu> wrote:
>Why should a gasoline piston engine in a car produce any more or less
>ignition noise than a gasoline piston engine in an airplane? In fact, the
>airplane has twice as much ignition stuff per cylinder, so I would expect it
>to produce more.

Shielding. In a typically automobile, ignition noise suppression efforts
are pretty much limited to resistive plugs and plug wires, to take some of
the sharp edges off the ignition pulse. Most all other filtering efforts
are within the receiver portion of the car radio, and besides, we all know
AM is dead these days...

Aircraft ignition systems feature full shielding from magneto to plug
electrode, with flexible metal braid covering the harness and fully shielded
plugs. Receivers have noise suppression circuits on the power leads, and
(relatively) complex noise blanking circuits. But ignition noise is still
often a problem.

(Prediction - when Slick's new electronic ignition system comes into
wide-spread use, we'll see a rise in ignition noise complaints. Electronic
ignition have a higher voltage spark with a faster rise-time, thus providing
a lot more energy to radiate. Then we'll all have to get new resistive
ignition harnesses and plugs. Slick's pretty smart, eh?)

The reason we still have AM comms is purely economic - You'll never get a
change through which will replace the AM system without a major squeal from
aircraft owner groups. "Too expensive", they'll say. "Unfair to the little
guy", will be the cry. Heck, we can't even legislate out the old 90 channel
radios.

-Mark

Date: Fri, 23 Sep 1994 15:01:06 GMT

From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!
news.moneng.mei.com!uwm.edu!mixcom.com!kevin.jessup@network.ucsd.edu
To: info-hams@ucsd.edu

References <CwHy4y.BAx@odin.corp.sgi.com>, <CwInpI.G5L@news.Hawaii.Edu>,
<CwJxnD.51n@odin.corp.sgi.com>
Subject : Re: Why is aviation COM VHF *amplitude* modulated?

In <CwJxnD.51n@odin.corp.sgi.com> jerryb@jerber.sandiego.sgi.com (Jerry Bransford)
writes:

>There are too many AM radios in airplanes, and when there was shortlived talk of
FM for airplanes, it was thoroughly trounced by a broad spectrum of airplane
drivers/owners/operators for purely economic issues.

What would an (FAA accepted?) FM radio cost? What is the total
annual cost (hangar/ground space, inspections, maintenance, fuel) of
operating a single engine plane? Is a radio upgrade going to break the
bank? What is the cost of a new radio as a percentage of yearly (or
even amortize it over 5 years) operating expenses? I'm not saying your
wrong, just curious about yearly operating costs.

I'd suspect the hobby of aviation has just as many people reluctant
to "upgrade" as does the hobby of amateur radio. I still hear local
repeater chatter regarding the "problem" of "upgrading" your HT
to PL when one's favorite repeater moves from "carrier only access"
to full-time "PL tone" access. As if PL is some high-tech luxury!

Date: 23 Sep 1994 14:59:22 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!math.ohio-
state.edu!magnus.acs.ohio-state.edu!csn!col.hp.com!jwc@network.ucsd.edu
To: info-hams@ucsd.edu

References <1994Sep19.134053.4255@newsgate.sps.mot.com>, <CwDxGt.6x8@cup.hp.com>,
<linleyCwKGsn.DG0@netcom.com>gnus
Subject : Re: Restrictive Covenants: I can't have *any* antenna?

Be specific. Contracts can be modified before and at time of sale.
If the selling agent accepts, your in.

John, N0KIC Been there, done that.

Date: 23 Sep 1994 15:15:14 GMT
From: news.columbia.edu!namaste.cc.columbia.edu!jbaltz@RUTGERS.EDU

To: info-hams@ucsd.edu

References <35mo2u\$ff1@newsbf01.news.aol.com>,
<35qiut\$bgd\$1@mhade.production.compuserve.com>,
<35s6li\$86s@xmission.xmission.com>.c
Subject : Re: Radio Shack Plays Historical Role

In article <35s6li\$86s@xmission.xmission.com>,
O. D. Williams <odwill@xmission.com> wrote:
>You know, I thought Wayne was being too hard on the ARRL until I joined
>it two months ago. You get a free book when you join. I picked the

Really? I joined in May and I didn't get a free book offered to me.

Maybe I should complain?

>O. D. Williams, N7OZH

//jbaltz
jerry b. altzman Entropy just isn't what it used to be +1 212 650 5617
jbaltz@columbia.edu jbaltz@sci.ccny.cuny.edu KE3ML (HEPNET) NEVIS::jbaltz

End of Info-Hams Digest V94 #1054
